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1 An efficient r-tree implementation over flash-memory storage systems

Chin-Hsien Wu, Li-Pin Chang, Tei-Wei Kuo

November 2003 **Proceedings of the eleventh ACM international symposium on Advances in geographic information systems**

Full text available: pdf(190.75 KB) Additional Information: full citation, abstract, references, index terms

For many applications with spatial data management such as Geographic Information Systems (GIS), block-oriented access over flash memory could introduce a significant number of node updates. Such node updates could result in a large number of out-place updates and garbage collection over flash memory and damage its reliability. In this paper, we propose a very different approach which could efficiently handle fine-grained updates due to R-tree index access of spatial data over flash memory. The ...

Keywords: GIS, R-tree, embedded systems, flash memory, spatial index structures, storage systems

2 Multimedia and hypermedia: Structuring interactive TV documents

Rudinei Goularte, Edson dos Santos Moreira, Maria da Graça C. Pimentel

November 2003 **Proceedings of the 2003 ACM symposium on Document engineering**

Full text available: pdf(1.31 MB) Additional Information: full citation, abstract, references, index terms

Interactive video technology is meant to support user-interaction with video *in scene* objects associated with navigation in video segments and access to text-based metadata. Interactive TV is one of the most important applications of this area, which has required the development of standards, techniques and tools, such as MPEG-4 and MPEG-7, to create, to describe, to deliver and to present interactive content.In this scenario, the structure and organization of documents containing multime ...

Keywords: MPEG-7, XLink, interactive TV, media descriptions, metadata

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Relevance scale

1 Rendering and simulation: Low latency photon mapping using block hashing

Vincent C. H. Ma, Michael D. McCool

September 2002 **Proceedings of the ACM SIGGRAPH/EUROGRAPHICS conference on Graphics hardware**

Full text available: pdf(3.10 MB) Additional Information: full citation, abstract, references, citings, index terms

For hardware accelerated rendering, photon mapping is especially useful for simulating caustic lighting effects on non-Lambertian surfaces. However, an efficient hardware algorithm for the computation of the k nearest neighbours to a sample point is required.Existing algorithms are often based on recursive spatial subdivision techniques, such askd-trees. However, hardware implementation of a tree-based algorithm would have a high latency, or would require a large cache to avoid this latency on a ...

2 Interactive exploration of very large relational datasets through 3D dynamic projections

Li Yang

August 2000 **Proceedings of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(364.62 KB) Additional Information: full citation, references, citings, index terms

3 Design Automation: *AQUASUN*: adaptive window query processing in *CAD* applications for physical design and verification

Michiel De Wilde, Dirk Stroobandt, Jan Van Campenhout

April 2002 **Proceedings of the 12th ACM Great Lakes Symposium on VLSI**

Full text available: pdf(1.61 MB) Additional Information: full citation, abstract, references, index terms

CAD applications for physical design and verification very often require enumerating all layout objects whose bounding box intersects an axis-aligned rectangular area. A number of multidimensional access methods exist to process such window queries. The performance of some important design and verification algorithms heavily depends on the processing speed of the used access method. For complex layouts, these methods require huge amounts of resident memory to attain this speed.In this paper, we ...

Keywords: multidimensional access methods, rectangle indexes

4 Fast image retrieval using color-spatial information

Beng Chin Ooi, Kian-Lee Tan, Tat Seng Chua, Wynne Hsu

May 1998 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 7 Issue 2

Full text available: pdf(496.55 KB) Additional Information: full citation, abstract, index terms

In this paper, we present an image retrieval system that employs both the color and spatial information of images to facilitate the retrieval process. The basic unit used in our technique is a *single-colored cluster*, which bounds a homogeneous region of that color in an image. Two clusters from two images are similar if they are of the same color and overlap in the image space. The number of clusters that can be extracted from an image can be very large, and it affects the accuracy of ret ...

Keywords: Color-spatial information, Content-based retrieval, Sequenced multi-attribute tree, Single-colored cluster

5 Integrating symbolic images into a multimedia database system using classification and abstraction approaches

Aya Soffer, Hanan Samet

December 1998 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 7 Issue 4

Full text available: pdf(227.30 KB) Additional Information: full citation, abstract, index terms

Symbolic images are composed of a finite set of symbols that have a semantic meaning. Examples of symbolic images include maps (where the semantic meaning of the symbols is given in the legend), engineering drawings, and floor plans. Two approaches for supporting queries on symbolic-image databases that are based on image content are studied. The classification approach preprocesses all symbolic images and attaches a semantic classification and an associated certainty factor to each object that ...

Keywords: Image indexing, Multimedia databases, Query optimization, Retrieval by content, Spatial databases, Symbolic-image databases

6 A high-performance Web-based system design for spatial data accesses

Shu-Ching Chen, Xinran Wang, Naphtali Rishe, Mark Allen Weiss

November 2000 **Proceedings of the eighth ACM international symposium on Advances in geographic information systems**

Full text available: pdf(787.51 KB) Additional Information: full citation, abstract, index terms

With the increasing use of geographical data in real-world applications, Geographic Information Systems (GISs) have recently emerged as a fruitful area for research. Nowadays, a GIS can be combined with World Wide Web (WWW) techniques to provide information to a multitude of users. A high-performance web-based GIS, called TerraFly, has been developed in order to provide web-based GIS accesses to the general public. The design of TerraFly considers three major aspects including system architec ...

Keywords: GIS, internally distributed multithreading, semantic R-tree

7 Self-spacial join selectivity estimation using fractal concepts

Alberto Belussi, Christos Faloutsos

April 1998 **ACM Transactions on Information Systems (TOIS)**, Volume 16 Issue 2

Full text available: pdf(2.28 MB) Additional Information: full citation, abstract, references, citings, index terms

The problem of selectivity estimation for queries of nontraditional databases is still an open issue. In this article, we examine the problem of selectivity estimation for some types of spatial queries in databases containing real data. We have shown earlier [Faloutsos and Kamel 1994] that real point sets typically have a nonuniform distribution, violating consistently the uniformity and independence assumptions. Moreover, we demonstrated that the theory of ...

Keywords: fractal dimension, range query, selectivity estimation, spatial join

8 Dynamic partitioning of signature files
P. Zezula, F. Rabitti, P. Tiberio
October 1991 **ACM Transactions on Information Systems (TOIS)**, Volume 9 Issue 4
Full text available: pdf(2.22 MB) Additional Information: full citation, references, citings, index terms, review

9 Building a scaleable geo-spatial DBMS: technology, implementation, and evaluation
Jignesh Patel, JieBing Yu, Navin Kabra, Kristin Tufte, Biswadeep Nag, Josef Burger, Nancy Hall, Karthikeyan Ramasamy, Roger Lueder, Curt Ellmann, Jim Kupsch, Shelly Guo, Johan Larson, David De Witt, Jeffrey Naughton
June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data**, Volume 26 Issue 2
Full text available: pdf(1.58 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents a number of new techniques for parallelizing geo-spatial database systems and discusses their implementation in the Paradise object-relational database system. The effectiveness of these techniques is demonstrated using a variety of complex geo-spatial queries over a 120 GB global geo-spatial data set.

10 Hashing by proximity to process duplicates in spatial databases
Walid G. Aref, Hanan Samet
November 1994 **Proceedings of the third international conference on Information and knowledge management**
Full text available: pdf(952.84 KB) Additional Information: full citation, abstract, references, citings, index terms

In a spatial database, an object may extend arbitrarily in space. As a result, many spatial data structures (e.g., the quadtree, the cell tree, the R+-tree) represent an object by partitioning it into multiple, yet simple, pieces, each of which is stored separately inside the data structure. Many operations on these data structures are likely to produce duplicate results because of the multiplicity of object pieces. A novel approach for duplicate processing based on pro ...

11 The Grid File: An Adaptable, Symmetric Multikey File Structure
J. Nievergelt, Hans Hinterberger, Kenneth C. Sevcik
March 1984 **ACM Transactions on Database Systems (TODS)**, Volume 9 Issue 1
Full text available: pdf(2.35 MB) Additional Information: full citation, abstract, references, citings, index terms

Traditional file structures that provide multikey access to records, for example, inverted files, are extensions of file structures originally designed for single-key access. They manifest various deficiencies in particular for multikey access to highly dynamic files. We study the dynamic aspects of file structures that treat all keys symmetrically, that is, file structures which avoid the distinction between primary and secondary keys. We start from a bitmap approach and treat the problem ...

12 Searching in metric spaces with user-defined and approximate distances
Paolo Ciaccia, Marco Patella
December 2002 **ACM Transactions on Database Systems (TODS)**, Volume 27 Issue 4
Full text available: pdf(555.89 KB) Additional Information: full citation, abstract, references, index terms

Novel database applications, such as multimedia, data mining, e-commerce, and many others, make intensive use of similarity queries in order to retrieve the objects that better fit a user request. Since the effectiveness of such queries improves when the user is allowed to personalize the similarity criterion according to which database objects are evaluated and ranked, the development of access methods able to efficiently support user-defined

similarity queries becomes a basic requirement. In t ...

Keywords: Distance metrics, user-defined queries

13 Locally adaptive dimensionality reduction for indexing large time series databases

Kaushik Chakrabarti, Eamonn Keogh, Sharad Mehrotra, Michael Pazzani
June 2002 **ACM Transactions on Database Systems (TODS)**, Volume 27 Issue 2

Full text available: pdf(1.48 MB) Additional Information: full citation, abstract, references, index terms

Similarity search in large time series databases has attracted much research interest recently. It is a difficult problem because of the typically high dimensionality of the data. The most promising solutions involve performing dimensionality reduction on the data, then indexing the reduced data with a multidimensional index structure. Many dimensionality reduction techniques have been proposed, including Singular Value Decomposition (SVD), the Discrete Fourier transform (DFT), and the Discrete ...

Keywords: Dimensionality reduction, indexing, time-series similarity retrieval

14 Locally adaptive dimensionality reduction for indexing large time series databases

Eamonn Keogh, Kaushik Chakrabarti, Michael Pazzani, Sharad Mehrotra
May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data**, Volume 30 Issue 2

Full text available: pdf(300.08 KB) Additional Information: full citation, abstract, references, citings, index terms

Similarity search in large time series databases has attracted much research interest recently. It is a difficult problem because of the typically high dimensionality of the data.. The most promising solutions involve performing dimensionality reduction on the data, then indexing the reduced data with a multidimensional index structure. Many dimensionality reduction techniques have been proposed, including Singular Value Decomposition (SVD), the Discrete Fourier transform (DFT), and the Discr ...

Keywords: content-based retrieval, dimensionality reduction, indexing

15 Data structures for dynamic queries: an analytical and experimental evaluation

Vinit Jain, Ben Shneiderman
June 1994 **Proceedings of the workshop on Advanced visual interfaces**

Full text available: pdf(2.35 MB) Additional Information: full citation, abstract, references, citings, index terms

Dynamic Queries is a querying technique for doing range search on multi-key data sets. It is a direct manipulation mechanism where the query is formulated using graphical widgets and the results are displayed graphically preferably within 100 milliseconds.This paper evaluates four data structures, the multilist, the grid file, k-d tree and the quad tree used to organize data in high speed storage for dynamic queries. The effect of factors like size, distribution and dimensionalit ...

16 Storage: Multi-dimensional range queries in sensor networks

Xin Li, Young Jin Kim, Ramesh Govindan, Wei Hong
November 2003 **Proceedings of the first international conference on Embedded networked sensor systems**

Full text available: pdf(331.43 KB) Additional Information: full citation, abstract, references, citings, index terms

In many sensor networks, data or events are named by attributes. Many of these attributes have scalar values, so one natural way to query events of interest is to use a *multi-dimensional* range query. An example is: "List all events whose temperature lies between

50° and 60°, and whose light levels lie between 10 and 15." Such queries are useful for correlating events occurring within the network.In this paper, we describe the design of a distributed index that scalably supports ...

Keywords: DIM, multi-dimensional range queries

17 Ensemble-index: a new approach to indexing large databases

Eamonn Keogh, Selina Chu, Michael Pazzani

August 2001 **Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(655.50 KB) Additional Information: full citation, abstract, references, index terms

The problem of similarity search (query-by-content) has attracted much research interest. It is a difficult problem because of the inherently high dimensionality of the data. The most promising solutions involve performing dimensionality reduction on the data, then indexing the reduced data with a multidimensional index structure. Many dimensionality reduction techniques have been proposed, including Singular Value Decomposition (SVD), the Discrete Fourier Transform (DFT), the Discrete Wavelet T ...

Keywords: Time series, data mining, dimensionality reduction, indexing and retrieval, similarity search

18 The PML-tree: an efficient parallel spatial index structure for spatial databases

Kap S. Bang, Huizhu Lu

February 1996 **Proceedings of the 1996 ACM 24th annual conference on Computer science**

Full text available: pdf(903.84 KB) Additional Information: full citation, references, index terms

19 Topological relations in the world of minimum bounding rectangles: a study with R-trees

Dimitris Papadias, Timos Sellis, Yannis Theodoridis, Max J. Egenhofer

May 1995 **ACM SIGMOD Record , Proceedings of the 1995 ACM SIGMOD international conference on Management of data**, Volume 24 Issue 2

Full text available: pdf(1.40 MB) Additional Information: full citation, abstract, references, citings, index terms

Recent developments in spatial relations have led to their use in numerous applications involving spatial databases. This paper is concerned with the retrieval of topological relations in Minimum Bounding Rectangle-based data structures. We study the topological information that Minimum Bounding Rectangles convey about the actual objects they enclose, using the concept of projections. Then we apply the results to R-trees and their variations, R^+-trees and R*-trees in order to minimise ...

20 Analysis of object oriented spatial access methods

Christos Faloutsos, Timos Sellis, Nick Roussopoulos

December 1987 **ACM SIGMOD Record , Proceedings of the 1987 ACM SIGMOD international conference on Management of data**, Volume 16 Issue 3

Full text available: pdf(1.11 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper provides an analysis of R-trees and a variation (R+-trees) that avoids overlapping rectangles in intermediate nodes of the tree. The main contributions of the paper are the following. We provide the first known analysis of R-trees. Although formulas are given for objects in one dimension (line segments), they can be generalized for objects in higher dimensions as well. We show how the transformation of objects to higher dimensions [HINR83] can be effectively ...

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Relevance scale

21 The network is the database: data management for highly distributed systems

Julio C. Navas, Michael Wynblatt

May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data**, Volume 30 Issue 2

Full text available: pdf(448.84 KB) Additional Information: full citation, abstract, references, index terms

This paper describes the methodology and implementation of a data management system for highly distributed systems, which was built to solve the scalability and reliability problems faced in a wide area postal logistics application developed at Siemens. The core of the approach is to borrow from Internet routing protocols, and their proven scalability and robustness, to build a network-embedded dynamic database index, and to augment schema definition to optimize the use of this index. The sys ...

Keywords: distributed data management, logistics, sensor networks, wide-area data management

22 Spatial and nearest-neighbor queries: Hardware acceleration for spatial selections and joins

Chengyu Sun, Divyakant Agrawal, Amr El Abbadi

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on on Management of data**

Full text available: pdf(744.80 KB) Additional Information: full citation, abstract, references, index terms

Spatial database operations are typically performed in two steps. In the *filtering* step, indexes and the minimum bounding rectangles (MBRs) of the objects are used to quickly determine a set of candidate objects, and in the *refinement* step, the actual geometries of the objects are retrieved and compared to the query geometry or each other. Because of the complexity of the computational geometry algorithms involved, the CPU cost of the refinement step is usually the dominant cost of ...

Keywords: hardware acceleration, spatial join, spatial selection

23 Window real objects: a distributed shared memory for distributed implementation of GUI applications

Noboru Koshizuka, Ken Sakamura

December 1993 **Proceedings of the 6th annual ACM symposium on User interface software and technology**

Full text available: pdf(1.31 MB) Additional Information: full citation, references, index terms

Keywords: BTRON, distributed shared memory, graphical user interface, multiuser interface, parallel programming, window system

24 Modelling urban environments: Modeling and visualizing the cultural heritage data set of Graz

Christopher Zach, Andreas Klaus, Joachim Bauer, Konrad Karner, Markus Grabner

November 2001 **Proceedings of the 2001 conference on Virtual reality, archeology, and cultural heritage**

Full text available: pdf(4.95 MB) Additional Information: full citation, abstract, references, index terms

The inner city (Old Town) of Graz will be the European cultural capital in 2003. In this paper we present preliminary results on the reconstruction and visualization of this kind of cultural heritage data. Starting with a simple block model obtained by converting 2 1/2 dimensional GIS (geographic information system) data we focus on the image based modeling of the facades. Herein we illustrate a robust search for corresponding points to estimate the relative orientation between image pairs.Addit ...

25 Representation of Three-Dimensional Digital Images

Sargur N. Srihari

December 1981 **ACM Computing Surveys (CSUR)**, Volume 13 Issue 4

Full text available: pdf(2.36 MB) Additional Information: full citation, references, citings, index terms

26 Separability of polyhedra for optimal filtering of spatial and constraint data

Alexander Brodsky, Catherine Lassez, Jean-Louis Lassez, Michael J. Maher

May 1995 **Proceedings of the fourteenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**

Full text available: pdf(1.09 MB) Additional Information: full citation, references, citings, index terms

27 Efficiently approximating the minimum-volume bounding box of a point set in three dimensions

Gill Barequet, Sariel Har-Peled

January 1999 **Proceedings of the tenth annual ACM-SIAM symposium on Discrete algorithms**

Full text available: pdf(1.02 MB) Additional Information: full citation, references, citings, index terms

Keywords: approximation, bounding box

28 Fast time-series searching with scaling and shifting

Kelvin Kam Wing Chu, Man Hon Wong

May 1999 **Proceedings of the eighteenth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**

Full text available: pdf(1.25 MB) Additional Information: full citation, references, citings, index terms

29 Direct spatial search on pictorial databases using packed R-trees

Nick Roussopoulos, Daniel Leifker

May 1985 **ACM SIGMOD Record , Proceedings of the 1985 ACM SIGMOD international conference on Management of data**, Volume 14 Issue 4

Full text available: pdf(1.26 MB) Additional Information: full citation, references, citings, index terms

30 The DEDALE system for complex spatial queries
Stéphane Grumbach, Philippe Rigaux, Luc Segoufin
June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data**, Volume 27 Issue 2
Full text available: pdf(1.62 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents DEDALE, a spatial database system intended to overcome some limitations of current systems by providing an abstract and non-specialized data model and query language for the representation and manipulation of spatial objects. DEDALE relies on a logical model based on linear constraints, which generalizes the constraint database model of [KKR90]. While in the classical constraint model, spatial data is always decomposed into its convex components, in DEDALE holes are allo ...

31 Spatial query processing in an object-oriented database system
Jack A. Orenstein
June 1986 **ACM SIGMOD Record , Proceedings of the 1986 ACM SIGMOD international conference on Management of data**, Volume 15 Issue 2
Full text available: pdf(1.04 MB) Additional Information: full citation, abstract, references, citings, index terms

DBMSs must offer spatial query processing capabilities to meet the needs of applications such as cartography, geographic information processing and CAD. Many data structures and algorithms that process grid representations of spatial data have appeared in the literature. We unify much of this work by identifying common principles and distilling them into a small set of constructs. (Published data structures and algorithms can be derived as special cases.) We show how these constructs can be ...

32 Dimensionality reduction for similarity searching in dynamic databases
K. V. Ravi Kanth, Divyakant Agrawal, Ambuj Singh
June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data**, Volume 27 Issue 2
Full text available: pdf(1.38 MB) Additional Information: full citation, abstract, references, citings, index terms

Databases are increasingly being used to store multi-media objects such as maps, images, audio and video. Storage and retrieval of these objects is accomplished using multi-dimensional index structures such as R*-trees and SS-trees. As dimensionality increases, query performance in these index structures degrades. This phenomenon, generally referred to as the dimensionality curse, can be circumvented by reducing the dimensionality of the data. Such a reduction is however accompanied by a lo ...

33 Nearest neighbor queries
Nick Roussopoulos, Stephen Kelley, Frédéric Vincent
May 1995 **ACM SIGMOD Record , Proceedings of the 1995 ACM SIGMOD international conference on Management of data**, Volume 24 Issue 2
Full text available: pdf(796.53 KB) Additional Information: full citation, abstract, references, citings, index terms

A frequently encountered type of query in Geographic Information Systems is to find the k nearest neighbor objects to a given point in space. Processing such queries requires substantially different search algorithms than those for location or range queries. In this paper we present an efficient branch-and-bound R-tree traversal algorithm to find the nearest neighbor object to a point, and then generalize it to finding the k nearest neighbors. We also discuss metrics for an optimistic and a pess ...

34 Partition based spatial-merge join
Jignesh M. Patel, David J. DeWitt
June 1996 **ACM SIGMOD Record , Proceedings of the 1996 ACM SIGMOD international**

conference on Management of data, Volume 25 Issue 2

Full text available: pdf(1.53 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes PBSM (Partition Based Spatial-Merge), a new algorithm for performing spatial join operation. This algorithm is especially effective when neither of the inputs to the join have an index on the joining attribute. Such a situation could arise if both inputs to the join are intermediate results in a complex query, or in a parallel environment where the inputs must be dynamically redistributed. The PBSM algorithm partitions the inputs into manageable chunks, and joins them using ...

35 Multi-step processing of spatial joins

Thomas Brinkhoff, Hans-Peter Kriegel, Ralf Schneider, Bernhard Seeger

May 1994 **ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference on Management of data**, Volume 23 Issue 2

Full text available: pdf(1.72 MB) Additional Information: full citation, abstract, references, citings, index terms

Spatial joins are one of the most important operations for combining spatial objects of several relations. In this paper, spatial join processing is studied in detail for extended spatial objects in two-dimensional data space. We present an approach for spatial join processing that is based on three steps. First, a spatial join is performed on the minimum bounding rectangles of the objects returning a set of candidates. Various approaches for accelerating this step of join processing have b ...

36 A retrieval technique for similar shapes

H. V. Jagadish

April 1991 **ACM SIGMOD Record , Proceedings of the 1991 ACM SIGMOD international conference on Management of data**, Volume 20 Issue 2

Full text available: pdf(1.04 MB) Additional Information: full citation, references, citings, index terms

37 On two-dimensional indexability and optimal range search indexing

Lars Arge, Vasilis Samoladas, Jeffrey Scott Vitter

May 1999 **Proceedings of the eighteenth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**

Full text available: pdf(1.60 MB) Additional Information: full citation, references, citings, index terms

38 Tight bounds for 2-dimensional indexing schemes

Elias Koutsoupias, D. S. Taylor

May 1998 **Proceedings of the seventeenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**

Full text available: pdf(870.15 KB) Additional Information: full citation, references, citings, index terms

39 Beyond uniformity and independence: analysis of R-trees using the concept of fractal dimension

Christos Faloutsos, Ibrahim Kamel

May 1994 **Proceedings of the thirteenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**

Full text available: pdf(835.47 KB) Additional Information: full citation, abstract, references, citings, index terms, review

We propose the concept of fractal dimension of a set of points, in order to quantify the deviation from the uniformity distribution. Using measurements on real data sets (road intersections of U.S. counties, star coordinates from NASA's Infrared-Ultraviolet Explorer etc.) we provide evidence that real data indeed are skewed, and, moreover, we show that

they behave as mathematical fractals, with a measurable, non-integer fractal dimension.Armed with this tool, we then show its pra ...

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1 **A dynamic indexing structure for searching time-series patterns**
Young in Kim; Youngbae Park; Jonghoon Chun;
Computer Software and Applications Conference, 1996. COMPSAC '96., Proceedings of 20th International , 21-23 Aug. 1996
Pages:270 - 275

[Abstract] [PDF Full-Text (420 KB)] **IEEE CNF**

2 **Efficient lossless coding scheme for vector quantisation using dynamic index mapping**
Seung Jun Lee; Kyeong Ho Yang; Chul Woo Kim; Choong Woong Lee;
Electronics Letters , Volume: 31 , Issue: 17 , 17 Aug. 1995
Pages:1426 - 1427

[Abstract] [PDF Full-Text (164 KB)] **IEE JNL**

3 **A method for dynamic indexing of large image databases**
Hendra, Y.; Gopalan, R.P.; Nair, M.G.;
Systems, Man, and Cybernetics, 1999. IEEE SMC '99 Conference Proceedings. 1999 IEEE International Conference on , Volume: 1 , 12-15 Oct. 1999
Pages:302 - 307 vol.1

[Abstract] [PDF Full-Text (632 KB)] **IEEE CNF**

4 **The DC-tree: a fully dynamic index structure for data warehouses**
Ester, M.; Kohlhammer, J.; Kriegel, H.-P.;
Data Engineering, 2000. Proceedings. 16th International Conference on , 29 Feb.-3 March 2000
Pages:379 - 388

[Abstract] [PDF Full-Text (92 KB)] **IEEE CNF**

5 **System dynamic index for market power mitigation in the restructuring electricity industry**

Jian Yang; Jordan, G.;
Power Engineering Society Summer Meeting, 2000. IEEE , Volume: 4 , 16-20 July 2000
Pages:2217 - 2222 vol. 4

[Abstract] [PDF Full-Text (524 KB)] IEEE CNF

6 **Dynamic index assessment for voltage stability in electric power systems**
Delfino, B.; Denergri, G.B.; Invernizzi, M.; Milano, F.;
Power System Technology, 2000. Proceedings. PowerCon 2000. International Conference on , Volume: 1 , 4-7 Dec. 2000
Pages:397 - 402 vol.1

[Abstract] [PDF Full-Text (536 KB)] IEEE CNF

7 **The GC-tree: a high-dimensional index structure for similarity search in image databases**
Guang-Ho Cha; Chin-Wan Chung;
Multimedia, IEEE Transactions on , Volume: 4 , Issue: 2 , June 2002
Pages:235 - 247

[Abstract] [PDF Full-Text (523 KB)] IEEE JNL

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